



73rd MORSS CD Cover Page

UNCLASSIFIED DISCLOSURE FORM CD Presentation

712CD

For office use only 41205

21-23 June 2005, at US Military Academy, West Point, NY

Please complete this form 712CD as your cover page to your electronic briefing submission to the MORSS CD. Do not fax to the MORS office.

Author Request (To be completed by applicant) - The following author(s) request authority to disclose the following presentation in the MORSS Final Report, for inclusion on the MORSS CD and/or posting on the MORS web site.

Name of Principal Author and all other author(s): **Nona Riley**

Principal Author's Organization and address:

Phone: **(256) 876-2669**

**US Army Aviation and Missile Command
Bldg 5308 Room 8440
Redstone, AL 35898**

Fax: **(256) 876-2817**

Email: **nona.riley@redstone.army.mil**

Original title on 712 A/B: **AMCOM Command Risk Management Process**

Revised title: _____

Presented in (input and Bold one): (WG **21**, CG____, Special Session ____, Poster, Demo, or Tutorial):

This presentation is believed to be:
UNCLASSIFIED AND APPROVED FOR PUBLIC RELEASE

Unclassified

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 22 JUN 2005		2. REPORT TYPE N/A		3. DATES COVERED -	
4. TITLE AND SUBTITLE Aviation and Missile LCMC Risk Management				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) US Army Aviation and Missile Command Bldg 5308 Room 8440 Redstone, AL 35898				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release, distribution unlimited					
13. SUPPLEMENTARY NOTES See also ADM201946, Military Operations Research Society Symposium (73rd) Held in West Point, NY on 21-23 June 2005. , The original document contains color images.					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT UU	18. NUMBER OF PAGES 13	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			



Aviation and Missile LCMC Risk Management

**73rd MORSS
21-23 June 2005**

**Nona Riley
AMCOM G3
(256) 876-2669**

Unclassified



Why Risk Management

The Undesirable Alternative to Risk Management is Crisis Management, a Resource Intensive Process that is Normally Constrained by a Restricted Set of Available Options

Unclassified



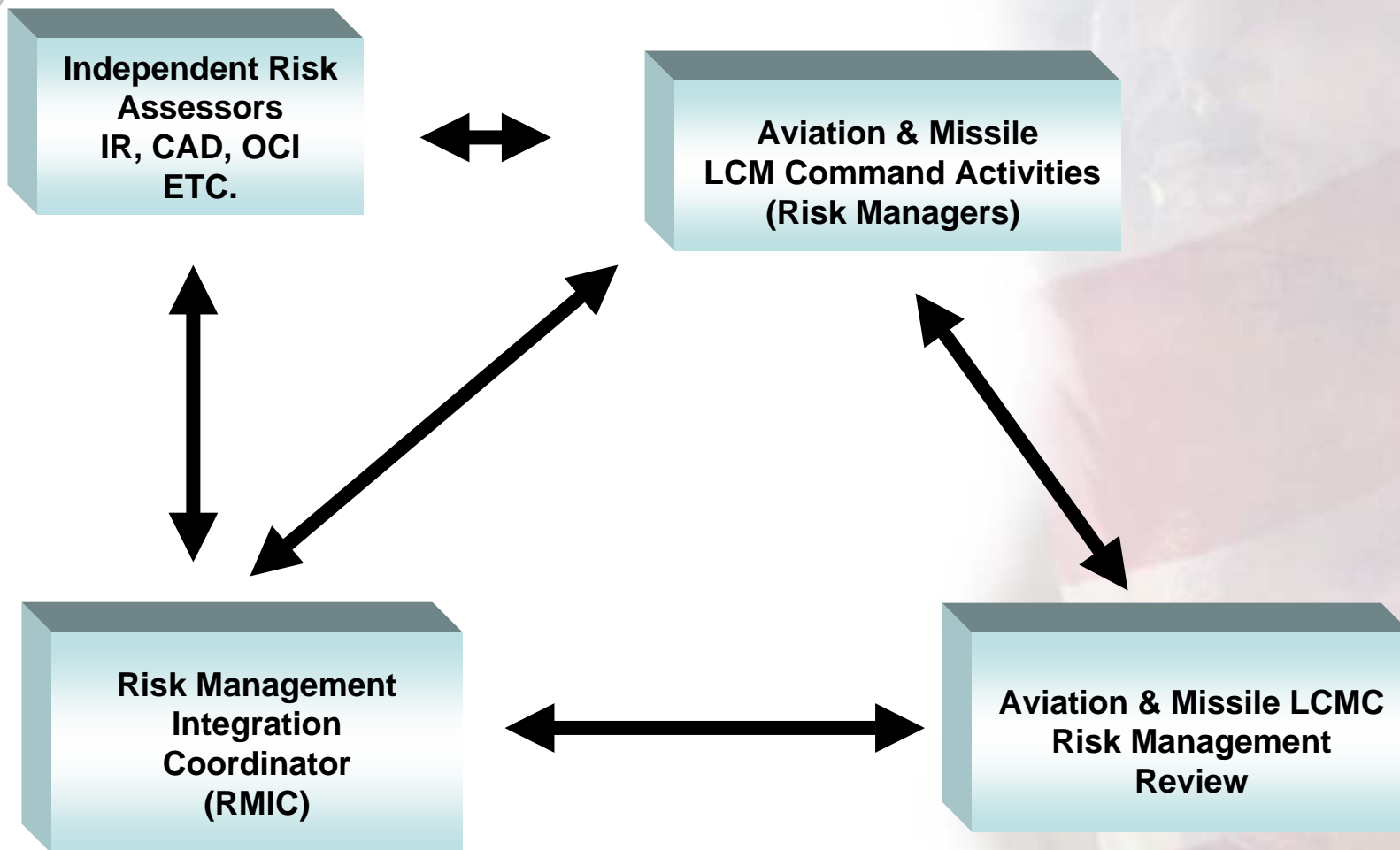
LCMC Risk Management Process Implementation

- **Organized, Comprehensive, and integrated approach for identifying, assessing and handling risk.**
- **AMCOM Command Risk encompasses programmatic, functional and operational risk.**
- **Includes the Risk Assessment Internal Control Process (RAICP)/ Strategic Readiness System (SRS) Balanced Score Card concept. (RAICP PAT Interim Report to be included in AR 11-2 revision)**
- **Functional Areas Risk Assessments**
- **Acquisition Program Risk Assessments**
- **Quantified Risk Assessment Methodology**

Unclassified



Aviation and Missile LCM Command Risk Management Structure



Unclassified



LCMC Risk Management Structure

Risk Manager

- the principal risk owners within the LCMC activities.
- Interface with the RMIC to provide all required documentation for Aviation & Missile LCMC Risk Management Reviews, as well as requests for Independent Risk Assessor's assistance.

Risk Management Integration Coordinator (RMIC)

- LCMC's G 3 principal staff officer
- Reviews and integrates risk assessments provided by Aviation & Missile LCM Command Activities Risk Managers for the Aviation & Missile LCMC Risk Management Review.
- coordinate all requests for Independent Risk Assessor assistance.
- Provides risk assessment and risk management training for all Risk Managers and Independent Risk Assessors.

Independent Risk Assessors

- Provides risk assessment assistance to all LCMC Activities.
- Provides functional expertise and risk analysis assistance to the LCMC activities and programs, and to the RMIC as necessary.
- The Independent Risk Assessors coordinate all requests for assistance through the RMIC

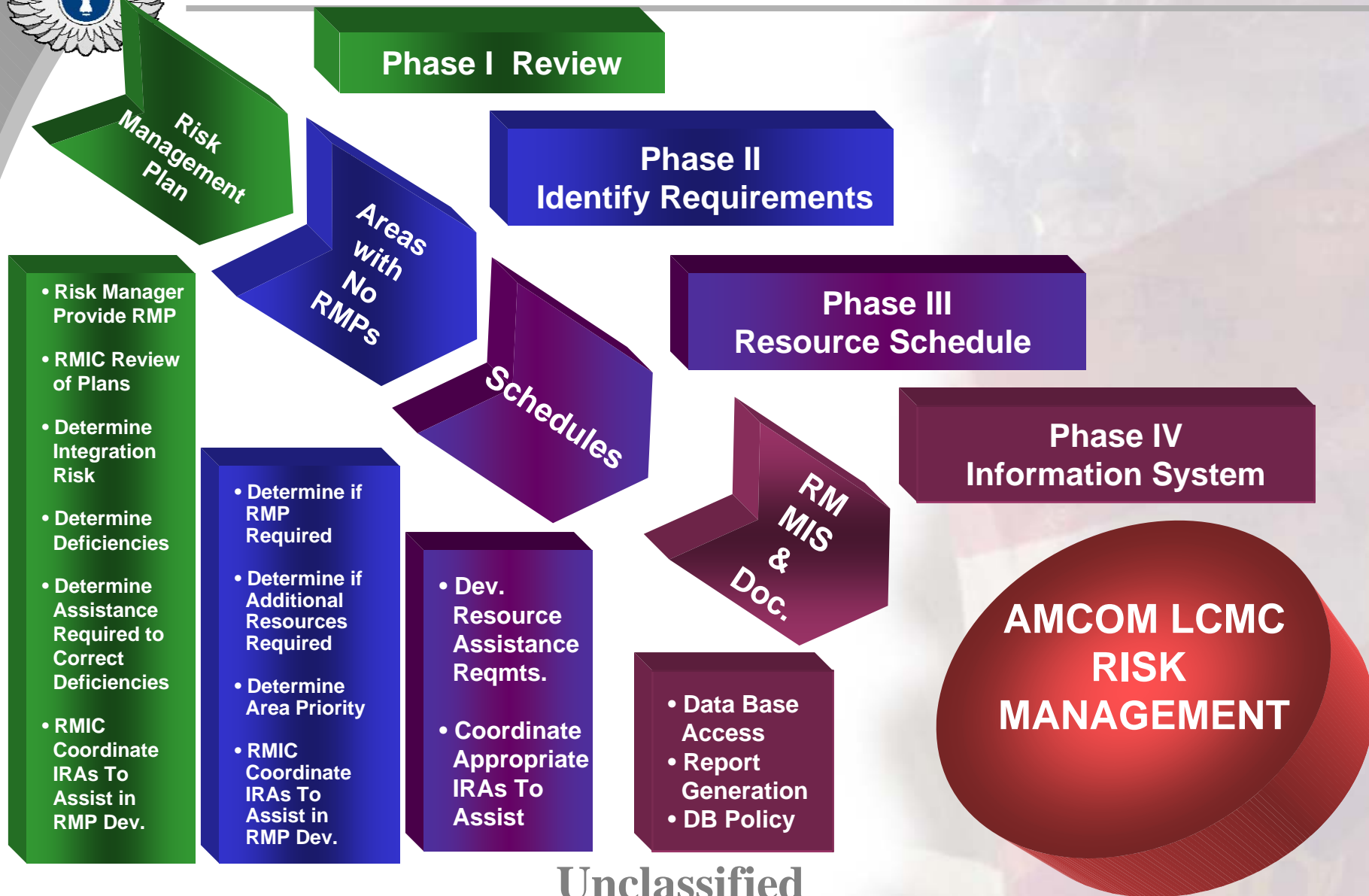
Aviation & Missile LCM Command Risk Management Review

- Conducted independently as critical issues arise or in conjunction with Weapon System or SRS Reviews
- The Aviation & Missile LCMC Risk Management Reviews will be chaired by the Aviation & Missile LCMC Commander or the designated representative.

Unclassified



LCMC Risk Management Implementation Phases



Unclassified



LCMC Risk Management Implementation Process

- **Phase 1 Review**

All programs, functional elements and operation elements will provide the Risk Management Integration Coordinator (RMIC) their latest Risk Management Plan. The Risk Management Plans will be reviewed by the RMIC to determine the integration level of risk. Deficiencies in the Risk Management Plans will be identified and the RMIC will work with the Risk Manager to determine the assistance required from the Independent Risk Assessors (IRA) to correct the deficiencies.

- **Phase 2 Identify Requirements**

Areas which do not already have a Risk Management Plan will be reviewed to determine if a Risk Management Plan is required. If a plan is required and additional assistance is needed, the RMIC will coordinate with the appropriate IRAs to assist in developing the Risk Management Plan. Programs will be evaluated to determine the highest risk areas and these will receive a high priority.

- **Phase 3 Resourced Schedules**

The RMIC will develop a resourced implementation schedule which identifies the resources required and a time line to achieve complete implementation. The Risk Management Implementation Process will be incrementally implemented beginning with those areas which already have approved Risk Management Plans.

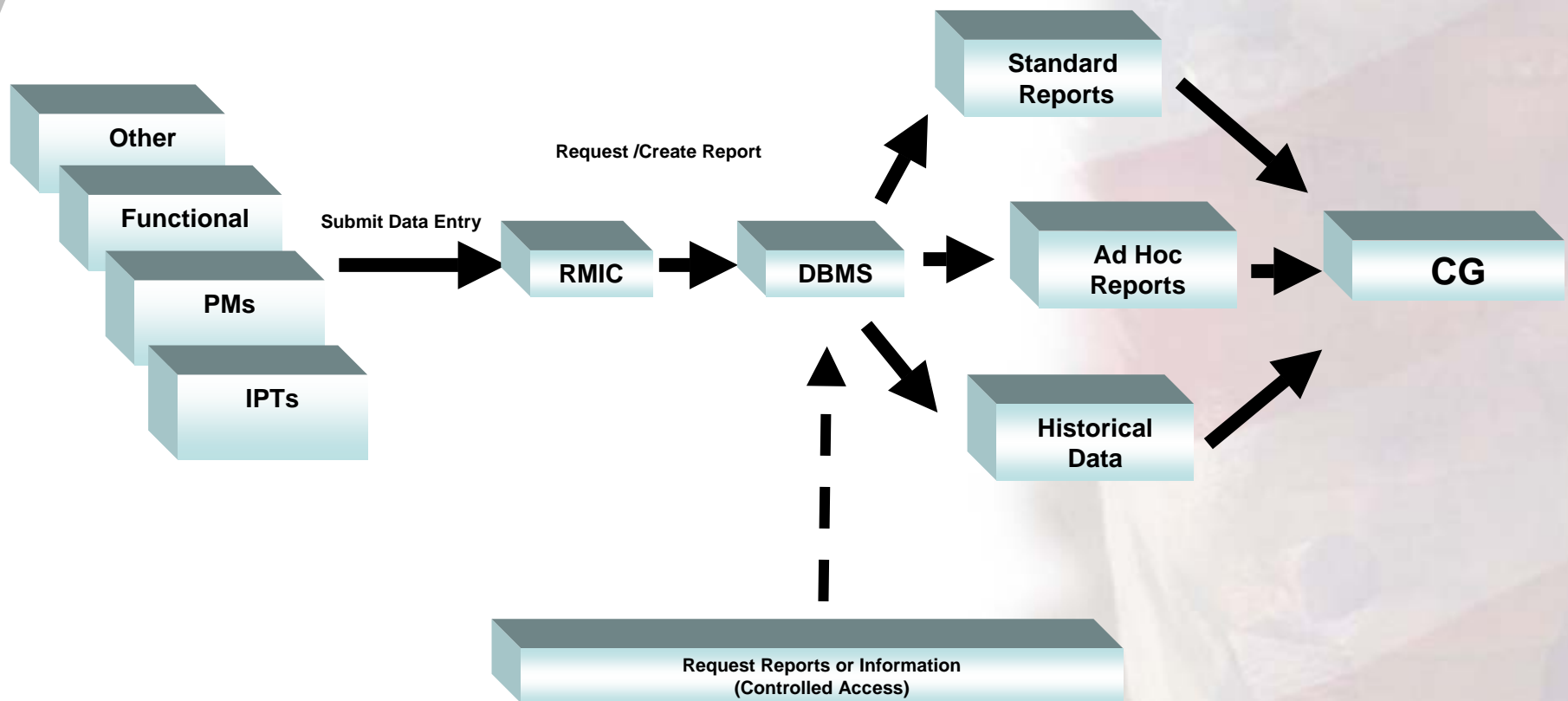
- **Phase 4 Command Risk Management Information System and Documentation**

Command database management system will store and allow retrieval of risk-related data. The risk management information system provides data for creating reports and serves as the repository for current and historical information related to Command risk. This information include risk assessment documents and any other risk-related reports. The RMIC is the LCMC's principal staff officer responsible for management of the reporting system and will; Publish any restrictions for entering data into the database; Identify reports and establish a schedule, if appropriate; Use standard report formats as much as possible; Ensure that the standard report formats support all users, such as the PM, functional areas, IPTs, and IIPs; Establish policy concerning access to the reporting system and protect the database from unauthorized access.

Unclassified



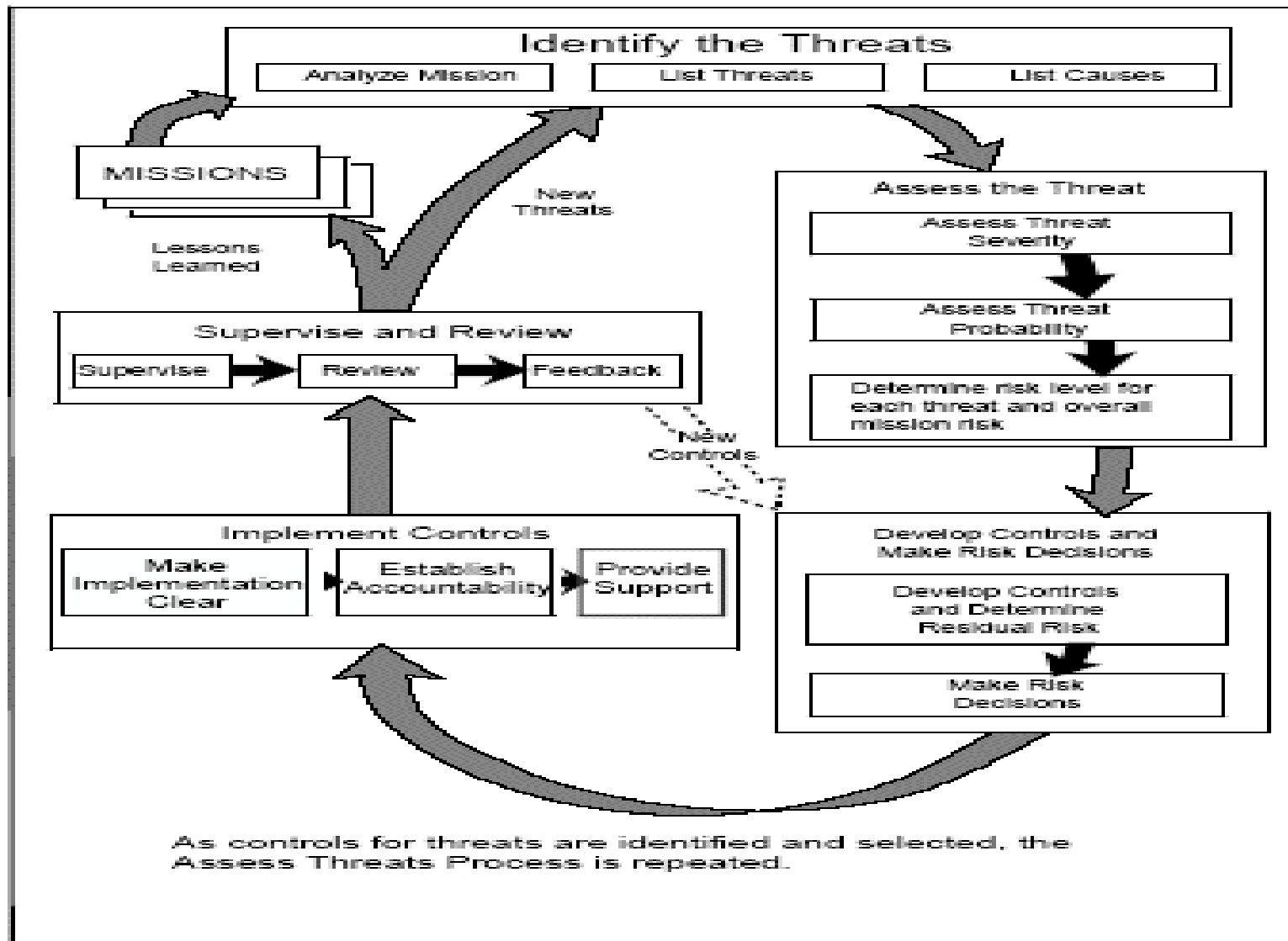
Risk Management Information Structure



Unclassified



Continuous Application of Risk Management





Risk Information Form

Risk Information Form	
Risk Identification Number	Date
Risk Event:	
Priority	
Major System/Component/Functional Area:	
Category:	
Statement of Risk:	
Description of Risk:	
Key Parameters:	
Assessment:	
Analysis:	
Process Variance	
Probability of Occurrence:	
Consequence:	
Time Sensitivity:	
Other Affected Areas:	
Risk Handling Plans:	
Risk Monitoring Activity:	
Status	
Status Date:	
Assignment:	Reported By:

Unclassified



Risk Tracking Report

Risk Tracking Report (Example Report)

- I. Risk Area Status: Design P_F: HI C_F: HI
Significant Design Risks:
1. Title: System Weight P_F: HI C_F: HI
Risk Event: Exceed system weight by 10%; decreasing the range and increasing fuel consumption.
Action: Examining subsystems to determine areas where weight may be reduced. Reviewing the requirement. Closely watching the effect on reliability and survivability.
2. Title: Design Analysis P_F: HI C_F: HI
Risk Event: Failure Modes, Effects and Criticality Analysis (FMECA) is planned too late to identify and correct any critical single-point failure points prior to design freeze.
Action: Additional resources are being sought to expedite performance of FMECA.
- II. Risk Area Status: Supportability P_F: HI C_F: Mod/HI
1. Title: Operational Support P_F: HI C_F: Mod/HI
Risk Event: Power supply subcontractor is in financial trouble and may go out of business. No other known sources exist.
Action: Doing trade study to see if alternative designs have a broader power supply vendor base. Prime contractor is negotiating with the subcontractor to buy drawings for development of second source.

Unclassified



Database Management Elements

Element	Description
Risk Identification (ID) Number	Identifies the risk and is a critical element of information, assuming that a relational database will be used by the PMO. (Construct the ID number to identify the organization responsible for oversight.)
Risk Event	States the risk event and identifies it with a descriptive name. The statement and risk identification number will always be associated in any report.
Priority	Reflects the importance of this risk priority assigned by the PMO compared to all other risks, e.g., a one (1) indicates the highest priority.
Data Submitted	Gives the date that the RIF was submitted.
Major System/Component	Identifies the major system/component based on the WBS.
Subsystem/Functional Area	Identifies the pertinent subsystem or component based on the WBS.
Category	Identifies the risk as technical/performance cost or schedule or combination of these.
Statement of Risk	Gives a concise statement (one or two sentences) of the risk.
Description of Risk	Briefly describes the risk. Lists the key processes that are involved in the design, development, and production of the particular system or subsystem. If technical/performance, includes how it is manifested (e.g., design and engineering, manufacturing, etc.).
Key Parameters	Identifies the key parameter, minimum acceptable value, and goal value, if appropriate. Identifies associated subsystem values required to meet the minimum acceptable value and describes the principal events planned to demonstrate that the minimum value has been met.
Assessment	States if an assessment has been done. Cites the Risk Assessment Report, if appropriate.
Analyses	Briefly describes the analysis done to assess the risk. Includes rationale and basis for results.
Probability of Occurrence	States the likelihood of the event occurring, based on definitions in the program's Risk Management Plan.
Consequence	States the consequence of the event, if it occurs, based on definitions in the program's Risk Management Plan.
Time Sensitivity	Estimates the relative urgency for implementing the risk-handling option.
Other Affected Areas	If appropriate, identifies any other subsystem or process that this risk affects.
Risk Handling Plans	Briefly describes plans to mitigate the risk. Refers to any detailed plans that may exist, if appropriate.
Risk Monitoring Activity	Measures using metrics for tracking progress in implementing risk-handling plans and achieving planned results for risk reduction.
Status	Briefly reports the status of the risk-handling activities and outcomes relevant to any risk handling milestones.
Status Due Date	Lists date of the status report.
Assignment	Lists individual assigned responsibility for handling activities.
Reported By	Records name and phone number of individual who reported the risk.

UNCLASSIFIED